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NOTICE: The Indexing Template (TD) field is available for some records starting with 940901/ED. Enter HELP TEMPLATE at an arrow prompt (=>) for information on how to use this field.

=> s ((vapor pressure or reid vapor pressure) (1) motor gasoline)/lt

127 VAPOR PRESSURE/LT

1 REID VAPOR PRESSURE/LT

708 MOTOR GASOLINE/LT

L1 0 ((VAPOR PRESSURE OR REID VAPOR PRESSURE) (L) MOTOR GASOLIN E)/LT

=> s ((vapor pressure or reid vapor pressure) and motor gasoline)/ct

4782 VAPOR PRESSURE/CT

23 REID VAPOR PRESSURE/CT

5851 MOTOR GASOLINE/CT

L2 238 ((VAPOR PRESSURE OR REID VAPOR PRESSURE) AND MOTOR GASOLIN E)/CT

=> s (reid vapor pressure and motor gasoline)/ct

23 REID VAPOR PRESSURE/CT

5851 MOTOR GASOLINE/CT

L3 17 (REID VAPOR PRESSURE AND MOTOR GASOLINE)/CT

=> d 1-17

ANSWER 1 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API AN 94:7186 APIPAT; APIPAT2 220 REID VAPOR PRESSURE
(REID(W)VAPOR(W)PRESSURE)
29698 GASOLINE

L1 149 (REID VAPOR PRESSURE (P) GASOLINE) => s (208 or 585)/clas

30594 208/CLAS 24078 585/CLAS

L2 48805 (208 OR 585)/CLAS

=> s l1 and l2

L3 40 L1 AND L2

=> d 1-40

- 1. 5,347,061, Sep. 13, 1994, Process for producing gasoline having lower benzene content and distillation end point; Mohsen N. Harandi, et al., **585/323**; **208/62**, **92**, **100**; **585/310**, **467**, **800** [IMAGE AVAILABLE]
- 2. 5,336,820, Aug. 9, 1994, Process for the alkylation of benzene-rich gasoline; Hartley Owen, et al., **585/323**, **313**, **449**, **467** [IMAGE AVAILABLE]
- 3. 5,326,926, Jul. 5, 1994, Isomerization with improved RVP and C4 recovery; Lynn H. Rice, **585/738**, **748** [IMAGE AVAILABLE]
- 4. 5,312,542, May 17, 1994, Hydrocarbon fuel and fuel systems; William L. Talbert, **208/16**, **17**; **585/14** [IMAGE AVAILABLE]
- 5. 5,288,393, Feb. 22, 1994, Gasoline fuel; Peter J. Jessup, et al., **208/16**, **14**, **15**, **18**; **585/14** [IMAGE AVAILABLE]
- 6. 5,254,790, Oct. 19, 1993, Integrated process for producing motor fuels; Gregory D. Thomas, et al., **585/717**; 568/697; **585/259**, **324**, **331**, **332**, **664**, **709** [IMAGE AVAILABLE]
- 7. 5,254,748, Oct. 19, 1993, Methyl-tertiary ether production; Harvey D. Hensley, et al., 568/697; **585/314**, **315**, **324**, **331**, **332**

[IMAGE AVAILABLE]

- 8. 5,208,402, May 4, 1993, Liquid fuels for internal combustion engines and process and apparatus for making same; Ewert J. A. Wilson, **585/1**; **208/16**, **17**; **585/7**, **13**, **14** [IMAGE AVAILABLE]
- 9. 5,198,597, Mar. 30, 1993, Bimetallic catalysts for dehydroisomerization of N-butane to isobutene; Chi-Lin O'Young, et al., **585/654**, **671**, **739**, **740** [IMAGE AVAILABLE]
- 10. 5,157,192, Oct. 20, 1992, Conversion of tertiary alcohols to C8+ olefins; Charles M. Sorensen, **585/640**, **324**, **639** [IMAGE AVAILABLE]
- 11. 5,093,533, Mar. 3, 1992, Blended gasolines and process for making same; Ewert J. A. Wilson, **585/1**; **208/17**; **585/7**, **13**, **14** [IMAGE AVAILABLE]
- 12. 5,041,208, Aug. 20, 1991, Process for increasing octane and reducing sulfur content of olefinic gasolines; Randall D. Patridge, et al., **208/138**, **217**, **244** [IMAGE AVAILABLE]
- 13. 5,026,938, Jun. 25, 1991, Process for upgrading light apparatus; Victor K. Shum, **585/417**, **419** [IMAGE AVAILABLE]
- 14. 5,015,356, May 14, 1991, Hydrocarbon fuel systems; William L. Talbert, **208/17**; 44/451; **585/14** [IMAGE AVAILABLE]
- 15. 5,004,850, Apr. 2, 1991, Blended gasolines; Ewert J. A. Wilson, **585/1**; **208/16**, **17**; **585/7**, **13** [IMAGE AVAILABLE]
- 16. 4,962,266, Oct. 9, 1990, Process to convert linear alkanes; Victor K. Shum, **585/660**, **661**, **670**, **751** [IMAGE AVAILABLE]
- 17. 4,950,828, Aug. 21, 1990, Process for upgrading light paraffins; Victor K. Shum, **585/417**, **419** [IMAGE AVAILABLE]
- 18. 4,828,676, May 9, 1989, Process for the production of ultra high octane gasoline, and other fuels from aromatic hydrocrackates; Willard H. Sawyer, et al., **208/57**, **58**, **59**, **61**, **78**, **79**, **80**, **89**, **144**; **585/260**, **301**, **411** [IMAGE AVAILABLE]
- 19. 4,828,675, May 9, 1989, Process for the production of ultra high octane gasoline, and other fuels from aromatic distillates; Willard H. Sawyer, et al., **208/57**, **58**, **59**, **60**, **61**, **78**, **79**, **80**, **89**, **144**; **585/260**, **301**, **411** [IMAGE AVAILABLE]

20. 4,818,250, Apr. 4, 1989, Process for producing fuel from plant sources and fuel blends containing same; Robert D. Whitworth, 44/430; **585/9**, **13**, **14** [IMAGE AVAILABLE]

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- 21. 4,812,146, Mar. 14, 1989, Liquid fuels of high octane values; Peter J. Jessup, 44/449; **585/14** [IMAGE AVAILABLE]
- 22. 4,808,763, Feb. 28, 1989, Process for upgrading light paraffins; Victor K. Shum, **585/415**, **417**, **419** [IMAGE AVAILABLE]
- 23. 4,806,701, Feb. 21, 1989, Process for upgrading light paraffins; Victor K. Shum, **585/417**, **419** [IMAGE AVAILABLE]
- 24. 4,773,916, Sep. 27, 1988, Fuel composition and method for control of octane requirement increase; Michael C. Croudace, et al., 44/440, 427, 441; **585/14** [IMAGE AVAILABLE]
- 25. 4,699,629, Oct. 13, 1987, Fuel composition and method for control of octane requirement increase; Michael C. Croudace, et al., 44/429; **585/14** [IMAGE AVAILABLE]
- 26. 4,607,129, Aug. 19, 1986, Catalytic dehydrocyclization and dehydrogenation of hydrocarbons; Fu M. Lee, **585/415**; **208/134**; **585/379**, **407**, **417**, **616**, **661** [IMAGE AVAILABLE]
- 27. 4,429,173, Jan. 31, 1984, Production of high-octane, unleaded motor fuel by alkylation of isobutane with isoamylenes obtained by dehydrogenation of isopentane; Thomas Hutson, Jr., et al., **585/331**, **314**, **315**, **316**, **332**, **716**, **717**, **719**, **723** [IMAGE AVAILABLE]
- 28. 4,387,257, Jun. 7, 1983, Motor fuel; Lyle D. Burns, **585/14**
 [IMAGE AVAILABLE]
- 29. 4,319,981, Mar. 16, 1982, Process for preparing a liquid fuel composition; Gary M. Singerman, 44/447; **208/263**, **403**; 568/630 [IMAGE AVAILABLE]
- 30. 4,228,509, Oct. 14, 1980, Multivariable control system for regulating process conditions and process optimizing; James P. Kennedy, 364/501; **208/133**, **DIG.1**; 364/153, 194 [IMAGE AVAILABLE]
- 31. 4,036,735, Jul. 19, 1977, Process for upgrading motor gasoline; Ronald R. Roselius, et al., **208/89**, **66** [IMAGE AVAILABLE]
- 32. 3,981,942, Sep. 21, 1976, HF alkylation process and reaction

- memperature control system; Robert F. Zabransky, **585/701**;
 208/DIG.1; 364/500; **585/719**, **723** [IMAGE AVAILABLE]
- 33. 3,976,179, Aug. 24, 1976, Controlling the temperature of a depropanizer tower by chromatographic analysis of feed and bottoms; Charles W. Harrison, et al., 196/132; 202/160; 203/3; **208/354**, **DIG.1** [IMAGE AVAILABLE]
- 34. 3,972,957, Aug. 3, 1976, HF alkylation reaction temperature control system; Robert F. Zabransky, **585/701**; **208/DIG.1**; 364/500; **585/719**, **723** [IMAGE AVAILABLE]
- 35. 3,969,078, Jul. 13, 1976, HF Alkylation reaction temperature control system; Robert F. Zabransky, 422/109; 364/153, 166, 501; 436/55; **585/701**, **723** [IMAGE AVAILABLE]
- 36. 3,937,749, Feb. 10, 1976, HF Alkylation reaction temperature control; Robert F. Zabransky, **585/701**; **208/DIG.1**; 364/153, 166, 500; **585/723** [IMAGE AVAILABLE]
- 37. 3,904,508, Sep. 9, 1975, Production of gasoline; Thaddeus E. Whyte, Jr., et al., **208/17**; **585/14** [IMAGE AVAILABLE]
- 38. 3,813,925, Jun. 4, 1974, DETERMINATION OF THE TEMPERATURE REQUIRED FOR A PREDETERMINED VOLATILITY RATIO; Ellsworth R. Fenske, et al., **585/1**; 137/3 [IMAGE AVAILABLE]
- 39. 3,718,706, Feb. 27, 1973, HEXANE CONVERSION; Robert P. Sieg, **585/310**, **708**, **737** [IMAGE AVAILABLE]
- 40. 3,676,522, Jul. 11, 1972, DISPROPORTIONATION AND ISOMERIZATION FOR ISOPENTANE PRODUCTION; Robert P. Sieg, **585/303**, **310**, **708**, **739** [IMAGE AVAILABLE]

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9422867
    Low Reid Vapour Pressure liquid gasoline - consisting of 6C to 9C or
     10C hydrocarbon(s)
     TALBERT W L
IN
     TALBERT FUEL SYSTEMS INC
PA
PΙ
    US
         5312542 940517
ΑI
     US 79-70683 790829
     US
        83-463251 830202
    US
        84-638069
                   840806
    US
        86-833038
                   860226
    US
        86-941833
                   861215
    US
        88-236162
                   880825
    US
        89-426859
                   891026
    US
        91-790029
                   911106
    US
        92-908560
                   920630
PRAI US 92-908560 920630
    US 91-790029
                   911106
    US 89-426859
                   891026
    US 88-236162 880825
    US
        86-941833 861215
    US 86-833038
                   860226
    US 84-638069
                   840806
    US
        83-463251
                   830202
    US
        79-70683 790829
OS
    DERWENT 94159046
L3
    ANSWER 2 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API
AN
    94:7182 APIPAT; APIPAT2
DN
    9422863
TI
    Lead-free high-octane gasoline with cold startability - comprises
     selected five and six carbon paraffinic hydrocarbon(s), selected
     five carbon non-paraffinic hydrocarbons and methyl tert. butyl ether
    cpd
    AKIMOTO J; NISHIDA T; OMATA T
IN
    NIPPON OIL KK; NIPPON OIL CO LTD
PA
        596611 940511
PΙ
    EP
DS
    DE; FR; GB
ΑI
    EP
         93-308099
                   931012
PRAI JP
         92-301855
                   921014
OS
    DERWENT 94152994
LA
    English
                            COPYRIGHT 1994 DERWENT/API
    ANSWER 3 OF 17
                    APIPAT
L3
AN
     94:4148 APIPAT; APIPAT2
     9421757
DN
ΤI
     Gasoline fuels giving reduced emission of pollutants - having
     limited Reid vapour pressure, distillation Points and olefin content
```

IN CROUDACE M C; JESSUP P J

PA UNION OIL CO CALIFORNIA

PI US 5288393 940222

AI US 90-628488 901213

PRAI US 90-628488 901213

OS DERWENT 94064770

L3 ANSWER 4 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 94:1198 APIPAT; APIPAT2

DN 9410497

TI Prodn. of high octane alkyl tert. alkyl ether(s) for gasoline fuels
 - by contacting isoolefin(s, diene(s), alkanol and co-fed hydrogen
 feedstream with regeneratable acidic metallosilicate catalyst
 particles of zeolite pref. contg. platinum or palladium

IN LE Q N; THOMSON R T

PA MOBIL OIL CORP

PI EP 573185 931208

DS BE; DE; ES; FR; GB; IT; NL

AI EP 93-303963 930521

PRAI US 92-896072 920602

OS DERWENT 93388276

LA English

L3 ANSWER 5 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 93:9046 APIPAT; APIPAT2

DN 9324151

TI Control and prediction of multicomponent fluid blends, esp.
gasoline, properties - by measuring absorbence values pref. in the
IR range, metering the fraction of each component, etc

IN MAGGARD S M

PA ASHLAND OIL INC

PI US 5223714 930629

AI US 91-797832 911126

PRAI US 91-797832 911126

OS DERWENT 93280091

L3 ANSWER 6 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 93:3804 APIPAT; APIPAT2

DN 9321859

TI Vaporised fuel control system for IC engine of vehicle - senses alcohol concn. and presumes reid vapour pressure in response, and regulates fuel tank pressure by adjusting amount of vaporised fuel to be extracted from tank

IN KITAJIMA S; KOBAYASHI Y; SUGA T

PA HONDA GIKEN KOGYO KK

PI US 5190014 930302

AI US 91-801285 911202

PRAI JP 90-336802 901130 OS DERWENT 93092922 L3 ANSWER 7 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API AN 93:3749 APIPAT; APIPAT2 DN 9321765 ΤI Lead-free high performance gasoline suitable for racing car use contains toluene, n-heptane, isopentane, C4 fraction of distillate and opt. tert.-butyl ether HOZUMI A; IKEBE H; MIYAMOTO K; NINOMIYA Y; SHIMIZU A; YAMADA S IN COSMO OIL CO LTD; COSMO RES INST; COSMO SOGO KENKYUSHO KK; FUJI PA HEAVY IND LTD 530745 930310 PΙ EΡ DE; FR; GB; IT DS ΑI EP92-114918 920901 PRAI JP 91-254645 910905 OS DERWENT 93078311 LΑ English L3 ANSWER 8 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API 92:1844 APIPAT; APIPAT2 AN DN9220833 Gasoline fuels giving reduced exhaust prod. reactivity - contg. ΤI cyclopentadienyl manganese tricarbonyl cpds. instead of aromatics PA Ethyl Corp EP 466512 920115 PΙ DS BE; DE; ES; FR; GB; IT 90-552090 900713 PRAI US OS DERWENT 92018102 ANSWER 9 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API L3 92:1843 APIPAT; APIPAT2 ANDN9220832 Gasoline fuels with low vapour pressure - contq. cyclopentadienyl TI manganese tricarbonyl cpds. as octane improvers Ethyl Petrol Addit PAEP 466511 920115 PΙ DS BE; DE; ES; FR; GB; IT PRAI US 90-552446 900713 DERWENT 92018101 os ANSWER 10 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API L3 AN 91:5433 APIPAT; APIPAT2 DN Lead-free high-performance gasoline - contains methyl tert. butyl TI ether, catalytically reformed gasoline and catalytically cracked qasoline

•PA Cosmo Sogo Kenkyush; Cosmo Sekiyu KK

PI JP 3093894 910418

PRAI JP 89-230696 890906

OS DERWENT 91159432

L3 ANSWER 11 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 91:5430 APIPAT; APIPAT2

DN 9122157

TI Gasoline compsns. having limited carbon ranges - of use with standard or modified carburation system

PA Talbert W L

PI US 5015356 910514

PRAI US 90-569367 900815

OS DERWENT 91163474

L3 ANSWER 12 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 91:4438 APIPAT; APIPAT2

DN 9121693

TI Gasoline blends with good vapour pressure and octane rating - contain low mol.wt. hydrocarbon(s) natural gasoline and toluene

PA Interstate Chem Inc

PI US 5004850 910402

PRAI US 89-447543 891208

OS DERWENT 91117046

L3 ANSWER 13 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 90:10277 APIPAT; APIPAT2

DN 9023225

TI Improving fuel combustion efficiency - by using low vapour pressure intermediate range gasoline, opt. with improved carburettor system

PA Talbert Fuel Syst

PI US 4955332 900911

PRAI US 88-236162 880825

OS DERWENT 90296995

L3 ANSWER 14 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 89:3255 APIPAT; APIPAT2

DN 8921132

TI Unleaded fuel compsn. with octane value of 100 or more - consists of toluene and alkylate and at least 2 members of MTBE, isobutane and n-butane, octane value being predictable by giving formula

PA Union Oil Co California

PI US 4812146 890314

PRAI US 88-204624 880609

OS DERWENT 89099435

L3 ANSWER 15 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

tAN 89:2672 APIPAT; APIPAT2

DN 8920972

Inexpensive fuel extender for lead-free gasoline - comprises naphtha, anhydrous ethanol, aromatics and ethyl acetate and/or methyl isobutyl ketone as water repellent

PA Prepolene Inds Inc

PI US 4806129 890221

PRAI US 88-206675 880615

OS DERWENT 89076766

L3 ANSWER 16 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 89:2024 APIPAT; APIPAT2

DN 8920783

TI Prepn. of unleaded, high octane fuel oil - by mixing reformate obtd. from desulphurised naphtha, alkylate obtd. by reacting isobutane with lower olefin and isopentane

PA Idemitsu Kosan KK

PI JP 63317592 881226

PRAI JP 87-153837 870619

OS DERWENT 89044075

L3 ANSWER 17 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AN 89:2023 APIPAT; APIPAT2

DN 8920782

TI Unleaded high octane high performance fuel oil - comprises reformate, alkylate and isopentane fraction

PA Idemitsu Kosan KK

PI JP 63317591 881226

PRAI JP 87-153836 870619

OS DERWENT 89044074

=> d ab 17

L3 ANSWER 17 OF 17 APIPAT COPYRIGHT 1994 DERWENT/API

AB Fuel oil contains (A) a reformate of 101.5 or higher research octane number (RON), 0.3 kg/cm2 or higher Reid vapour pressure and 30-200 deg.C b.pt., (B) an alkylate, and (C) an isopentane fraction of 90-95 research octane number. It has 99.5 higher research octane number, 88.6 or higher motor octane number (MON) and contains 50 vol.% less aromatics content and 25 vol.% or more summed fraction distilled up to 70 deg.C. Another new oil contains additionally (D) light catalytic-cracking gasoline of 93.5-96.5 research octane number, 0.6-1.05 mg/cm2 Reid vapour press., and 25-100 deg.C b.pt. and has the same characteristics. USE/ADVANTAGE - With the high RON and MON and balanced vapour pressure, distilling characteristics and aromatic contents, the oil has a good antiknock property, esp. at

high speeds, and good operatability, startability, combustibility, and acceleration at low temps. @(6pp Dwg.No.0/0)@